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3 September 1965

MEMORANDUM FOR THE RECORD

SUBJECT: Trip Report: [redacted] 25X1
[redacted] - 30 August 25X1

1. Rapid Access Printer (PAR 203)

We will review again the verbal proposal and recommendations of PAR 203 as stated below and send our opinion [redacted] stating whether 25X1
we are interested in further development as a follow-on from 203; or reject it. We were shown pictures of new production models of film viewers and splicers which could be used as a basis for a Rapid Access Printer. Several questions were raised [redacted] Does NPIC want an 25X1
enlargement print for the P.I.? Negative copy at any time? Is it worthwhile to proceed with this development (PAR-203) in view of the reduced resolution of the print? Does the P.I. really need a print in such a hurry? Have we considered developing a complete roll rapidly and making it available to the P.I. to cut and clip as necessary? Will this require a systems study first? Is a human factors study necessary? Should the printer have two strand rollers?

2. PAR 207; will be published in mid-October.

3. PAR 202/224

We inspected the breadboard model of the Briefing Print Enlarger and looked over its component parts. It looks like it may prove to be a breakthrough of some sort. Briefing prints will be turned out at 3X to 60X. By mid-October the breadboard printer should be able to produce experimental prints. Our photo laboratory people should be able to visit them and see the results. About six weeks later the report should be completed (Phase I), and we should then determine whether we should go into the prototype phase. Because the two PAR's have been combined, we decided to give the project a new PAR number for the prototype phase. It will be "PAR 243, Briefing Print Enlarger Prototype." This will not cause a change in funding or monitoring, but is an administrative adjustment. It is envisioned that the prototype phase would be about twelve months. The question arose: Will there be a need for the 10 - 20 - 40X enlarger if we have a successful Briefing Print Enlarger? We think the 10 - 20 - 40X can do a few things better because of the better lenses and better resolution. The BPE is better for prints

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and for larger fields but poorer in resolution. (The better lenses of the 10-20-40X can be fitted to the BPE for better resolution in which case we would no longer require the 10-20-40.) We asked that the prototype cost estimate of the BPE (202) be reworked and submitted to us for fund planning.

4. 10 - 20 - 40X Enlarger

[redacted] explanation for more work on this enlarger includes: 25X1

a. They could develop a better lens.

b. The dimensions of the Enlarger could be reduced.

c. The silicone lubricant spills over on the negative of the present enlarger.

d. The metering roll is used as a drive. At high speeds this is a strain on the film . They would like to use a system as developed on the 202/224 Briefing Printe Enlarger.

e. They would like to work on a mobile-platform (airborne) 10-20-40X Enlarger under Contract [redacted] 25X1

f. They believe they can get better resolution and obtain better results on edges of field.

If we stay with the 10-20-40X, [redacted] would at least like to replace the negative transport and film metering component, similar to that of the Briefing Print Enlarger, PAR 202/224. 25X1

Two more alternatives were discussed involving the fate of the 10-20-40X. (1) Do not improve the 10-20-40X because the Briefing Print Enlarger will eventually do the same job (paper prints) much better, that is, larger and quicker prints (but not better in resolution). (2) Add the lenses of the 10-20-40X to the Briefing Print Enlarger to increase and improve the output of the BPE. The 10-20-40X could then be used primarily for film.

[redacted] representative claimed that any work on developing an airborne 10-20-40X would not come under [redacted] but more appropriately under [redacted] ("exploitation function") 25X1 25X1 25X1

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5. PAR 217. Optimization of Lasers

We can expect a final report in mid-October.

6. PAR 233. Zoom Projection Lens (6X - 60X).

Nothing has yet been done [redacted] They will generate a design 25X1
lens and will notify us when ready for our first technical review.

7. PAR 227. Color Viewer

This PAR was originated as a result of PAR's 212 and 213. A proposal is ready [redacted] and should reach us any day. (Do we have 25X1
camouflage interest?)

8. PAR 242. Sample Color Films for PAR 213

This is a new PAR for a proposal to acquire sample films used in the study for PAR 213. To be used along with the briefing boards for PAR 213.

9. PAR 222. Automatic Stereo Registration System

[redacted] would like our opinion of their further approach proposed 25X1
on this project as stated in the final report.

10. [redacted] Nominated Items of April 25X1

(1) Rapid Access Printer. Discussed in Paragraph 1.

(2) Reproduction Systems Distortion. NPIC comments will be based upon results of PAR 207, not yet received.

(3) Moire Pattern Technique Study. NPIC rejected this item as a prospective PAR.

(4) Stereo Projection Study. NPIC will decide soon on whether [redacted] is to submit a proposal. NPIC is to give the go-ahead. 25X1
[redacted] asks the question: "Is it worth our time to submit a proposal?" This study concerns the mechanics of color stereo viewing; study of parameters of equipment design. More advances are ahead in the field of color film. Are we ready to start this study?

(5) Stereo Registration Device. [redacted] claims to have made 25X1
significant new approaches from recent experience and claims to be able to come up with an attractive proposal -- but does not want to spend time on writing a proposal

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unless NPIC indicates interest in this stereo registration system. Scanning would be part of it.

(6) Briefing Print Enlarger and Fluid Gate Enlarger (PAR 202/224)

Covered elsewhere in this report.

(7) Study Use of Holograms in Reproduction.

NPIC rejected this item as a prospective PAR.

(8) Mensuration Studies Near Limits of Resolution.

NPIC is to notify [redacted] if interested in this study. This study would be based upon the results of Micro-D usage. 25X1

11. Future Item (not connected with [redacted] 25X1

[redacted] brought up the subject of a problem area now and for the future. Edge Data on Acquisition Systems. [redacted] says standardization is necessary now. Every designer has his own concept on how the data should be presented on the film. (Its harder to read off than to put it on!) [redacted] believes the designers should receive firm guidelines and "we" must provide it. NPIC representative pointed out that the whole industry was involved in this and a number of committees were seized with this problem. [redacted] believes the code bits should be large and readable and not small as has been demonstrated by a number of designers. [redacted] representative [redacted] would like to talk with [redacted] concerning this subject. 25X1 25X1 25X1 25X1 25X1 25X1 25X1 25X1 25X1

A communication [redacted] is required to set forth our further intentions on items and questions listed above. 25X1

A re-estimate of the costs of the total PAR's under [redacted] will be prepared [redacted] Estimated costs will be more realistic in view of the mounting numbers of completed PAR's. This will be of great value to us. The report will be prepared in accordance with our recommendations requested at the meeting. 25X1 25X1

[redacted] 25X1

Development Branch, P&DS

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